

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1. (Canceled)
2. (Currently amended) ~~[[The]]~~ A drive controller of claim 4 for a drive of an electric machine, comprising
a first functional block having at least one permanently installed controller function for storing at least one basic real-time function for controlling the drive; and
a second functional block having at least one dynamically loadable controller function for storing at least one additional real-time function for controlling the drive,
wherein the second functional block can be dynamically loaded or dynamically overwritten with the at least one additional real-time function during operation of the controller, and
wherein during the operation or during processing of the at least one basic real-time function, the at least one additional real-time function is dynamically loaded or dynamically overwritten or started or executed in the second functional block without interrupting the at least one basic real-time function.
3. (Currently amended) The controller of claim ~~[[1]]~~ 2, and further comprising a bus link, wherein the at least one additional real-time function is loaded via the bus link from a management automation system.
4. (Currently amended) The controller of claim ~~[[1]]~~ 2, wherein the at least one additional real-time function is loaded via an Internet connection.
5. (Canceled)

6. (Currently amended) ~~[[The]]~~ A drive controller of claim 5 for a drive of an electric machine, comprising
a first functional block having at least one permanently installed controller function for storing at least one basic real-time function for controlling the drive;
a second functional block having at least one dynamically loadable controller function for storing at least one additional real-time function for controlling the drive; and
a device for runtime monitoring,
wherein the second functional block can be dynamically loaded or dynamically overwritten with the at least one additional real-time function during operation of the controller, and
wherein the runtime monitoring device determines a computing time required by the at least one additional real-time function, and wherein the at least one additional real-time function is terminated if the required computing time exceeds a predefined reference time.
7. (Canceled)
8. (Currently amended) ~~[[The]]~~ A drive controller of claim 7 for a drive of an electric machine, comprising
a first functional block having at least one permanently installed controller function for storing at least one basic real-time function for controlling the drive;
a second functional block having at least one dynamically loadable controller function for storing at least one additional real-time function for controlling the drive; and
a device for monitoring memory location access,
wherein the second functional block can be dynamically loaded or dynamically overwritten with the at least one additional real-time function during operation of the controller, and

wherein the device for monitoring memory location access monitors memory addresses accessed by the at least one additional real-time function, and wherein the at least one additional real-time function is terminated if these memory addresses do not correspond to predefined reference memory addresses that are reserved for the at least one additional real-time function.

9. (Currently amended) The controller of claim [[7]] 8, wherein the device for monitoring memory location access administers a memory region with access rights for both the at least one basic real-time functions and the at least one additional real-time function, and wherein copies of variables of the at least one basic real-time function are stored at this memory region.

10. (Canceled)

11. (Currently amended) ~~[[The]]~~ A method of claim 10 for operating a drive controller for an electric machine, comprising the steps of:

executing on the drive controller at least one permanently installed controller function for storing a basic real-time function for controlling the electric machine, and

dynamically loading or dynamically overwriting at least one additional real-time function during operation of the controller and during execution of the permanently installed controller function,

wherein for controlling the drive of the electric machine, several basic real-time functions of the controller are executed, and wherein during the operation or execution of the basic real-time functions the at least one additional real-time function is dynamically loaded or dynamically overwritten or started or processed without interrupting the basic real-time ~~[[basic]]~~ functions.

12. (Currently amended) ~~[[The]]~~ A method of claim 10 for operating a drive controller for an electric machine, comprising the steps of:
executing on the drive controller at least one permanently installed controller function for storing a basic real-time function for controlling the electric machine, and
dynamically loading or dynamically overwriting at least one additional real-time function during operation of the controller and during execution of the permanently installed controller function,
wherein a computing time required by the at least one additional real-time function is determined, and wherein the at least one additional real-time function is terminated if the required computing time exceeds a predefined reference time.
13. (Currently amended) ~~[[The]]~~ A method of claim 10 for operating a drive controller for an electric machine, comprising the steps of:
executing on the drive controller at least one permanently installed controller function for storing a basic real-time function for controlling the electric machine, and
dynamically loading or dynamically overwriting at least one additional real-time function during operation of the controller and during execution of the permanently installed controller function,
wherein ~~[[the]]~~ memory addresses accessed by the at least one additional real-time function are monitored and wherein the at least one additional real-time function is terminated if these memory addresses do not correspond to predefined reference memory addresses reserved for the at least one additional real-time function.
14. (New) The controller of claim 6, and further comprising a bus link, wherein the at least one additional real-time function is loaded via the bus link from a management automation system.

15. (New) The controller of claim 6, wherein the at least one additional real-time function is loaded via an Internet connection.
16. (New) The controller of claim 8, and further comprising a bus link, wherein the at least one additional real-time function is loaded via the bus link from a management automation system.
17. (New) The controller of claim 8, wherein the at least one additional real-time function is loaded via an Internet connection.
18. (New) The controller of claim 11, and further comprising a bus link, wherein the at least one additional real-time function is loaded via the bus link from a management automation system.
19. (New) The controller of claim 11, wherein the at least one additional real-time function is loaded via an Internet connection.
20. (New) The controller of claim 12, and further comprising a bus link, wherein the at least one additional real-time function is loaded via the bus link from a management automation system.
21. (New) The controller of claim 12, wherein the at least one additional real-time function is loaded via an Internet connection.
22. (New) The controller of claim 13, and further comprising a bus link, wherein the at least one additional real-time function is loaded via the bus link from a management automation system.
23. (New) The controller of claim 13, wherein the at least one additional real-time function is loaded via an Internet connection.